UNIQUE IDENTIFICATION OF ITEMS

Recognized DoD UID Equivalents

A commercial identifier can be considered for use as a DoD UID equivalent if it meets all of these criteria: (1) It contains an enterprise identifier, (2) It uniquely identifies an individual item within an enterprise identifier, product, or part number, and (3) It has an existing DI or AI listed in American National Standard (ANS) MH10.8.2, Data Identifier and Application Identifier Standard. The commercial unique identifiers meeting these criteria that DoD recognizes as UII equivalents are the EAN.UCC Global Individual Asset Identifier (GIAI) for serially managed assets, the EAN.UCC Global Returnable Asset Identifier (GRAI) for returnable assets, the ISO Vehicle Identification Number (VIN) for vehicles, and the Telecommunications Industry Association Electronic Serial Number (ESN) for cellular telephones.

Wide Area Work Flow

Wide Area Work Flow-Receipt and Acceptance (WAWF-RA) will be the standardized data capture mechanism for transmitting UID data from contractors into the DoD UID registry for new acquisitions of tangible items. For more information on WAWF, visit the training site at http://www.wawftraining.com.

UID Registry

The UID registry will serve as an acquisition gateway to:

- Identify what the item is
- Identify the original owner of the item
- Identify the initial value of the item
- Identify procuring activity and acceptance timing
- Intersect with other systems (e.g., property management, logistics, inventory management)

Resources & Contact Information

Department of Defense Unique Identification

info@uniqueid.org

Lydia Dawson: (703) 695-1098

lydia.dawson@osd.mil (Government Furnished Property, Contracting,

Valuation, Registry)

Robert Leibrandt: (703) 695-1099

robert.leibrandt@osd.mil (Engineering, Logistics, International Standards, Program Management)



UID Training from Defense Acquisition University

West Region: (619) 524-4800 Midwest Region: (937) 781-1025 South Region: (256) 722-1100

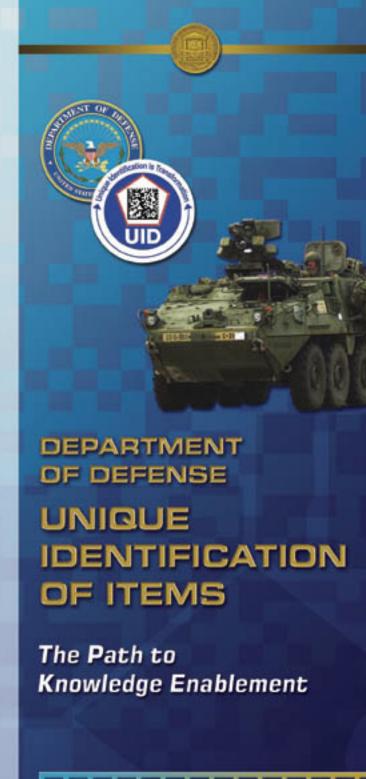
Mid-Atlantic Region: (240) 895-7344

Capital & Northeast Region: (703) 805-2764

e-Mail: uidprogramtraining@dau.mil

For more information on the Defense Acquisition University, call 1-888-284-4906 or visit the DAU Web site at http://www.dau.mil

UID background materials, previous UID policy memos, and implementation guidelines are available at http://www.acq.osd.mil/dpap/uid



UNIQUE IDENTIFICATION OF ITEMS

What is Unique Identification of Items?

Unique Identification (UID) is a system of distinquishing one object from another, allowing DoD to track identical objects separately. UID of items reguires that qualifying items have a data matrix either directly inscribed on them or on a perma-nent machine-readable label affixed to them. The data matrix contains a set of data elements that can be concatenated to form a Unique Item Identi-fier (UII). The UII identifies an individual item distinctly from all other individual items that DoD buys and owns. This information allows DoD to associate valuable business intelligence with an item throughout its life cycle and accurately capture and maintain data for valuation and tracking of items.

What a UII Is and Isn't:

A UII Is:

- A globally unique. unambiguous item identifier.
- Permanent through life.
- Created by concatenatinga string of specific data elements.
- A means of creating and utilizing life cycle data.

A UII Is Not:

- A physical method of communicating data, such as radio frequency idenfication (RFID) tags, contact memory buttons, linear bar codes, or 2-D data matrices.
- A replacement for the national stock number.
- Intelligent stand-alone data that contain information about an item.

What does the UII Mark Look Like?

DoD has adopted a high density 2-D matrix style bar code that can encode up to 3116 characters called Data Matrix ECC 2000. The symbol is built on a square grid arranged with a finder pattern around the perimeter of the bar code symbol. It is

not possible for the human eve to read what has been encoded in the data matrix symbol (see example) so the matrices must be both written and read using Automated Identification Technology (AIT).



How is the DoD UII Mark Read?

The UII itself is not normally marked in the data matrix because it can be formed from its component data elements each time the data matrix is

read.1 Instead, the data elements that make up the UII are marked within the data matrix, and are read using an automated reader. When the mark is read, the data elements must be described to the AIT reader with prefixes used to represent instructions to the reader. These "prefixes" are known as data qualifiers, which are specified characters that immediately precede a data field and define the general category or intended use of the data that follow.

Data qualifiers can take one of three forms in commercial use: alphanumeric Data Identifiers (DI), numeric Application Identifiers (AI), or alpha Text Element Identifiers (TEI) (see next page). For additional information on data qualifiers to be used in DoD UID, please refer to the DoD Guide to Uniquely Identifying Items at: http://www. acq.osd.mil/dpap/uid.

How is a DoD UII Built?

There are two methods to construct the UII for an item: Construct # 1, with serialization within the enterprise identifier, and Construct # 2, with serialization within the original part number, lot number or batch number (within the enterprise identifier). Which construct your enterprise uses depends on your manufacturing processes.

In Construct # 1, the UII is built by adding a unique serial number after your enterprise's identification (EID)—either a CAGE/NCAGE, DUNS, or EAN.UCC number. There is no need to mark the data matrix with the Issuing Agency Code (IAC); so long as the proper data qualifier is used before your EID, the concatenated UII will have the correct IAC. Construct # 2 is also comprised of your EID, but it is followed by the original part number, lot number, or batch number, and then by the serial number. The current part number is not part of either UII construct; it is an additional data element.

¹If the enterprise chooses to mark the concatenated UII as a discrete data element on the item, the component data elements must also be marked on the item as discrete data elements, in addition to the concatenated UII.

What Data Qualifiers are Used?

Data Type **Enterprise ID Type**

CAGE/NCAGE (IAC = D) DUNS (IAC = UN) EAN, UCC (IAC = 0.9)

Other Data Elements Serial No. w/in Enterprise Identifie Serial No. w/in Original Part No.

Original Part Number Unique Identifier (with IAC) Unique Identifier (without IAC) Current Part Number

		Al	TEI
	170		CAG,MFR or SPL
	120		DUN
		95	EUC
		AI	TEI
er			SER or UCN
	S	21	SEQ
	1P	1	PNO
	25S	8004	UID
	18S		USN or UST
	30P	240	PNR

Data Qualifer

What Data Elements are Needed? **UII** Construct

For use when items are serialized within the:

The UII is derived by concatenating these data elements IN ORDER:*

#1 #2 Part Number Enterprise

IAC*

Enterprise ID Serial Number Original

Part/Int/ Batch Number Serial Number Current Part

Number

Enterprise ID

Data that may be identified on Current Part assets, but not part of the UII: Number

*IAC—The Issuing Agency Code represents the registration authority that issued the enterprise identifier (e.g., Dun and Bradstreet, EAN.UCC). In the concatenated UII, the IAC can be

Sample UII Constructs

UII Construct #1¹ MFR OCVA5 SER 786950

DOCVA5786950

IAC EID

UII Construct #2² (12V)194532636 (1P)1234

(S)786950 UN1945326361234786950

FID Oria, Serial Part No. No.

1 Using TEI data qualifiers 2 Using DI data qualifiers





